CIVIL QUALITY CONSULTANTS & ENGINEERS
ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/17/2021-2022

Date: 04.08.2021

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.
Agency : **Sri. Karibasappa R,** Contractor, Bangalore.
Name of Work : Improvements and Maintenance of S.W.M in JP Park ward no. 17, BBMP, Bangalore

Sample : :Cement (ACC 53 grade OPC)
Sample Supplied by: :AGENCY
Date of Manufacture: : July -2021
Date of Testing 02.08.2021 to 04.08.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	185 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	345 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00%	-

Note:
1. The Material is Satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CQCE/BBMP/KR/17/2021-2022 Date 04.08.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.
Agency : **Sri. Karibasappa R,** Contractor, Bangalore.
Name of Work : Improvements and Maintenance of S.W.M in JP Park ward no. 17, BBMP, Bangalore

Date of Testing 04.08.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	81	8.10	8.10	91.9	90-100
2.36	148	14.80	22.90	77.1	75-100
1.18	160	16.00	38.90	61.1	55-90
600 Micron	222	22.20	61.10	38.9	35-59
300 Micron	165	16.50	77.60	22.4	8-30
150 Micron	155	15.50	93.10	6.9	0-10

Note:
1. The Material is Satisfied as per the requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/17/2021-2022

Date 04.08.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.
Agency : **Sri. Karibasappa R,** Contractor, Bangalore.
Name of Work : Improvements and Maintenance of S.W.M in JP Park ward no. 17, BBMP, Bangalore

Date of Testing 04.08.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	230	1.53	1.53	98.47	95-100
20	8547	56.98	58.51	41.49	30-70
10	3365	22.43	80.95	19.05	10-35
4.75	2454	16.36	97.31	2.69	0-5

Note:
1. The Material is Satisfied as per the requirements.

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Job No.: CQCE/BBMP/KR/17/2021-2022 Date 04.08.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.
Agency : **Sri. Karibasappa R,** Contractor, Bangalore.
Name of Work : Improvements and Maintenance of S.W.M in JP Park ward no. 17, BBMP, Bangalore

Date of Testing 04.08.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	199	4.0	4.0	96.0	95-100
10	2657	53.1	57.1	42.9	25-55
4.75	1658	33.2	90.3	9.7	0-10

Note:
1. The Material is Satisfied as per the requirements.

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Job No.: CQCE/BBMP/KR/17/2021-2022 Date : 04.08.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.
Agency : **Sri. Karibasappa R,** Contractor, Bangalore.
Name of Work : Improvements and Maintenance of S.W.M in JP Park ward no. 17, BBMP, Bangalore

Date of Testing : 04.08.2021
Material : Plastering Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	28	2.80	2.80	97.2	95-100
2.36	14	1.40	4.20	95.8	95-100
1.18	33	3.30	7.50	92.5	90-100
600 Micron	69	6.90	14.40	85.6	80-100
300 Micron	244	24.40	38.80	61.2	20-65
150 Micron	533	53.30	92.10	7.9	0-15

1. The Material is Satisfied as per the requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No: CQCE/BBMP/KR/17/2021-2022 Date : 04.08.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.
Agency : **Sri. Karibasappa R,** Contractor, Bangalore.
Name of Work : Improvements and Maintenance of S.W.M in JP Park ward no. 17, BBMP, Bangalore

Date of Testing : 04.08.2021
Material : Masonry Sand Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	18	1.80	1.80	98.2	90-100
1.18	30	3.00	4.80	95.2	70-100
600 Micron	78	7.80	12.60	87.4	40-100
300 Micron	248	24.80	37.40	62.6	5-70
150 Micron	511	51.10	88.50	11.5	0-15

Note:
1. The Material is Satisfied as per the requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/17/2021-2022

Date : 04.08.2021

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.

Agency : **Sri. Karibasappa R,** Contractor, Bangalore.

Name of the Work : Improvements and Maintenance of S.W.M in JP Park ward no. 17, BBMP, Bangalore

Date of Testing : 04.08.2021

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	33.2	355.4	4.44	2075.00	Minimum required Compressive Strength of Individual Units 4.00N/mm^2
2	Block 2	31.5	363.5	4.54	1968.75	
3	Block 3	34.6	376.8	4.71	2162.50	
4	Block 4	33.4	387.5	4.84	2087.50	

Note:

1. The Material is Satisfied as per the requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/17/2021-2022

Date: 13.08.2021

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.

Agency : **Sri. Karibasappa R,** Contractor, Bangalore.

Name of the work : Improvements and Maintenance of S.W.M in JP Park ward no. 17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.08.2021	13.08.2021	8.133	264.5	11.76
2	06.08.2021	13.08.2021	8.155	273.6	12.16
3	06.08.2021	13.08.2021	8.109	281.4	12.51

Note:

1. The Material is Satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/17/2021-2022

Date: 03.09.2021

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.

Agency : **Sri. Karibasappa R,** Contractor, Bangalore.

Name of the work : Improvements and Maintenance of S.W.M in JP Park ward no. 17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.08.2021	03.09.2021	8.117	386.5	17.18
2	06.08.2021	03.09.2021	8.139	391.4	17.40
3	06.08.2021	03.09.2021	8.174	402.0	17.87

Note:

1. The Material is Satisfied as per the requirements.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/17/2021-2022

Date: 14.08.2021

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.
Agency	: **Sri. Karibasappa R,** Contractor, Bangalore.
Name of the work	: Improvements and Maintenance of S.W.M in JP Park ward no. 17, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.08.2021	14.08.2021	8.021	263.1	11.69
2	07.08.2021	14.08.2021	8.067	273.4	12.15
3	07.08.2021	14.08.2021	8.091	288.8	12.84

Note:

1. The Material is Satisfied as per the requirements.

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Job No.: CQCE/BBMP/KR/17/2021-2022

Date: 04.09.2021

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwanthpura Sub Division,BBMP, Bangalore.

Agency : **Sri. Karibasappa R,** Contractor, Bangalore.

Name of the work : Improvements and Maintenance of S.W.M in JP Park ward no. 17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.08.2021	04.09.2021	8.066	371.2	16.50
2	07.08.2021	04.09.2021	8.099	382.4	17.00
3	07.08.2021	04.09.2021	8.111	391.5	17.40

Note:

1. The Material is Satisfied as per the requirements.

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